

Certificate of Analysis

Reference Material & Standard

Product Name:	1,8-Octanedicarboxylic Acid (Decanedioic Acid)	Catalogue Number:	CCFD200010
Synonyms:	N/A	Lot Number:	0718-RA-0002
CAS Number:	111-20-6	Expiry Date:	Sep 29, 2029
Molecular Formula:	C ₁₀ H ₁₈ O ₄	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	202.25		

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	100.000%
Loss On Drying	TGA	0.0075%
Assay		100.0%
Uncertainty		±0.2%

Comment:

- The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Loss On Drying}) * \text{Purity ELSD (\%)} / 100\%$$

Loss On Drying is considered as absolute effect, ELSD purity is considered as relative effect.
- The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

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Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Sep 30, 2025

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